Innovation in Pumping Technology

Stainless Steel Vertical and Horizontal multistage pumps for water supply, boosting, sprinkling, irrigation, high pressure wash, fire protection and water treatment (De-mineralisation, Filtering).

- Water supply
- Boosting
- Sprinkling
- Irrigation
- High pressure wash
- Fire protection
- Water treatment
- Boiler Feed

WILIO Engineering Ltd., Enterprise Centre
Childers Road, Limerick, Ireland
Telephone: 061-41 09 63 Telefax: 061-41 47 28
Find That Product ... Fast!

Enclosed with this, the November issue of BSNews, is your personal copy of the BSNews Building Services Buyer Guide 1999/2000.

Acknowledged as the definitive specifier/buyer guide for the entire building services sector, it includes over 5,000 cross-referenced, indexed entries covering manufacturers, distributors, agents and stockists. It is an invaluable aid for all those with responsibility for specifying and purchasing within building services, containing both mechanical and electrical product details presented under a simple-to-find category/brand-led format.

The enclosed copy of the Buyer Guide is your own personal copy and comes to you free-of-charge. For additional copies send a cheque for £30 (made payable to Pressline Ltd) to BSNews, Carraig Court, George's Avenue, Blackrock, Co Dublin.

The Energy Show '98 ... Don't Miss It!

Energy management in Ireland has come of age, developing from what was a fledgling industry two years ago into the mature business it represents today. While the Energy Show '96 was instrumental in spearheading this development, the forthcoming Energy Show '98 demonstrates just how far the industry has progressed.

Apart from the presentation of a vast array of dynamic, innovative products and services, there is the programme of associated energy-related workshops.

Given the significance of energy in relation to building services as a whole, the vast bulk of the November issue of BSNews is given over to the Energy Show '98. It also contains your complimentary "Show Catalogue".

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Published by ARROW@DIT, 1998
CR PUMPS
- a new age in performance and economy

Performance
- Pump efficiency >80%
- Flow - up to 120 m³/h
- Head - up to 48 bar
- Temperature: -30 to +150°C
- Low NPSH

Service & Installation
- Cartridge shaft seal and spacer coupling
- Universal flange system
- No special tools required
- Grundfos norm motor or any standard motor

GRUNDFOS
**CR PUMPS**
- a new age in performance and economy

**Performance**
- Pump efficiency >80%
- Flow - up to 120 m³/h
- Head - up to 48 bar
- Temperature - +30 to +150°C
- Low NPSH

**Service & Installation**
- Cartridge shaft seal and spacer coupling
- Universal flange system
- No special tools required
- Grundfos norm motor or any standard motor

- **Adaptor flange**
  For use with any standard motor (optional)

- **Easy replaceable shaft seal**
  Grundfos cartridge- or any DIN shaft seal, replaceable without disassembling the pump

- **Wear resistant bearings**
  Heavy duty intermediate- and bottom bearings (tungsten carbide)

- **Flexible connections**
  Universal flange system for flexible and easy installation

- **Spacer coupling**
  Facilitates changing of shaft seal without dismantling the motor (>7.5 kW)

- **Split pump head**
  CRN versions with cast stainless steel pump top

- **O-ring sleeve sealing**
  Allows high- and variable media temperatures

- **Highly efficient hydraulic design**
  Optimised sealings, guide systems and laser welded impellers

Published by ARROW@DIT, 1998
Honeywell Distributor Network

Honeywell has established a network of specialist distributors to help spearhead expansion of its business activities in the Republic of Ireland.

Further to recent announcements, see panel right for the latest list of authorised Honeywell distributors in the 26 counties.

Honeywell has a worldwide range of products, services and business operations, some of which are not covered by the list above. This list is subject to change, the latest information may be confirmed by calling: Honeywell’s Head Office. Tel: 0044 1344 656000.

Wessex 100 M Series – Gas-fired High Efficiency

Hevac will introduce the latest range of Hamworthy gas-fired pre-mix high efficiency boilers, the Wessex 100 M Series, at the forthcoming Energy Show.

Through continuous improvement of the Wessex range of boilers, Hamworthy has developed the next generation of adaptable, high-efficiency boilers – The Wessex 100 M Series – which offers greater flexibility and choice to system designers; ease of installation for contractors; and a high level of performance and reliability for the end user.

Says Karl Carrick, Hevac Operations & Service Manager: “The long-established Wessex range of boilers, first developed 20 years ago, has been exemplary. Wessex boilers manufactured in the early 1980s are still providing heat to hotels, hospitals and many other satisfied Hamworthy customers, demonstrating the product is both robust and reliable.

“The Wessex 100 M Series is a natural development in the Wessex range which incorporates some innovative new features – successfully marrying the best of established technology with the best of the new”.

Innovative features include:-

Hamworthy Heating’s latest range of gas-fired, pre-mix, high-efficiency boilers, the Wessex 100 M Series, which is now available from Hevac.
Matrix arrangement of modules, up to three high; 100kW module output, high/low operation; Cleaner combustion air through high level intake; Close-coupled vertical flue system.

**Options include:**
- Ducted combustion air supply;
- Integral Marshall boiler sequence control system;
- Pipework header kits.
- With the environment and stack emissions becoming an increasingly high profile subject, Hamworthy's Wessex range is a heating product that offers extremely low levels of pollutants resulting from the combustion process achieving European Class 5 for NOx emissions. This factor, combined with high-efficiency (nett efficiency in excess of 94%), places the product within the scope of some of the most rigorous legislation in Europe.

Contact: Karl Carrick, Hevac.
Tel: 01 - 830 1211.

**Energy Workshops**

It is estimated that the application of currently-available technologies and careful energy management techniques can, in many instances, result in an annual saving of up to 20% of overall energy consumption.

Achieving this objective requires very careful consideration of all options based on previous experience and current best practice. These workshops will highlight how this task should be undertaken in each of the subject applications covered.

There will be a total of four, half-day workshops.
For further details contact:
Iris Atwell, Irish Energy Centre.
Tel: 01 - 808 2080.
Keston Condensing Gas Boilers

The Keston boiler is a revolutionary concept in condensing boilers with high efficiency and ultra-low NOx emissions. The design provides high efficiency with a single pass heat exchanger. Air is drawn into the unit via plastic pipe. A measured amount of gas is injected into the air stream and the mixture is passed through a highly-turbulent blower. This blower forces the mixture of gas and air into a micro-mesh burner which burns with a tight blue flame, after being ignited by a spark electrode. There is no pilot or thermocouple in the appliance.

The hot combustion gases pass down the centre of a tightly-coiled steel tube carrying the central heating water. When the combustion gases emerge from the base of the heat exchanger, the temperature is reduced to around 5°C above the return water temperature. The cooled gases are then forced out of the heat exchanger via plastic pipe where they are discharged into the atmosphere. The air intake and flue are 40mm or 50mm standard MuPVC waste pipe.

The Keston operates at efficiencies of up to 99.1% which cuts carbon dioxide emissions, a major contributor to the Greenhouse effect and consequently fuel bills.

Contact: Frank Forde, Keston Heating Products.
Tel: 01 - 451 7022.
Who Should Attend The Exhibition?
The Energy Show '98 is a must for anyone with responsibility for, or an interest in, energy and energy-related matters. This includes:

- Energy Managers
- Hoteliers
- Consulting Engineers
- Energy End-users
- Property & Facilities Managers
- Maintenance Managers
- Government Department Officials
- Service Managers
- Factory & Utilities Managers
- State Utilities
- School & University Managers
- Hospital Managers

BOILER AWARDS
Organised by the Irish Energy Centre, the National Boiler Awards are highly valued within the energy management sector and general industry. It is appropriate that this year's presentation ceremony* will form an integral part of The Energy Show '98.

*Attendance by invitation only.

SAVE HANDS TIME AND MONEY
- Non-Acid: For Water, Gas & Heating

VENUE:
Burlington Hotel Conference Centre, Dublin

DATES & TIMES:
November 18th, 1998 - 10.00 am - 6.00 pm
November 19th, 1998 - 10.00 am - 5.00 pm
Exhibition & Workshops

presented by

IRISH ENERGY CENTRE

Venue
Burlington Hotel
Conference Centre, Dublin

Dates & Times
Wednesday 18th November 1998
10am to 6pm
Thursday 19th November 1998
10am to 5pm

The Irish Energy Centre is an initiative of the Department of Public Enterprise and is supported by the EII through the Community Support Framework.
HEVAC LIMITED, 70/72 Lower Dorset Street, Dublin 1, Ireland. Tel: +353 1 830 1211. Fax: +353 1 830 1990

Triflow Solder - Ring Copper Lead - Free Capillary Fittings
Conex Compression Fittings 1/2" to 2" and 67mm to 108mm
Conex Copper x Copper Gate Valves, Manifolds, Serviceman Valves

Cast Iron Oil Boilers (outputs from 17.5 kW to 213 kW)
Cast Iron Gas Boilers (outputs from 22kW to 287kW)

Cast iron sectional and steel commercial / industrial hot water boilers, for oil and gas firing with outputs ranging from 90kW to 290kW.
Floreal and Dune high performance, cast iron sectional radiators.

Cast iron sectional gas fired modular boilers with outputs ranging from 27kW to 1150kW

Dennis Baldwin & Son. Steam and hot water packaged steel boilers specifically designed to meet the individual needs of industry on any fuel.
Steam 1000 lbs/hr to 33,000 lbs/hr, & Hot Water 292 kW to 2920kW.

Gas fired glass-lined water heaters 32 to 500 gallons per hour.

Fully automatic gas, oil and dual fuel burners in on/off, high/low and fully modulating from 18 kW to 11,000 kW.

High efficiency gas and oil fired floor standing air heaters. Low pressure hot water unit heaters. Air curtains for low pressure hot water operation. Portable gas and oil fired heaters.

Incinerators for hospitals, prisons and industrial waste, confidential documents, pathological and animal waste and special applications.

Stainless steel single wall and twin wall chimneys, aluminium lined gas vent and Europa flue suitable for a wide range of applications including pressurised ducted systems.

Circulating and booster pumps, for domestic, commercial and industrial applications, hot, cold and chilled water supply, sewage and drainage systems.

Gas detection for residential, commercial and industrial applications.

Expansion Vessels from 8 litre to 500 litre - also Cold water vessels

Professional Answers to Central Heating Problems - Corrosion Proofers, Cleansers, Leak Sealers, Anti-Freeze etc.

Full range of Gas & Oil Boilers - Premier, Select and Chorus Radiators Radiator Valves - Pumps etc.

ProPex High Density Cross-Linked Plumbing, Central and Underfloor Heating. Pipe sizes 1/2" to 1"
LAB Approval No:98/0099
Welcome to the Energy Show

As Minister with responsibility for the Irish Energy Centre, I am pleased to write the foreword for Energy Show '98.

Firstly, I wish to say that I see the role of the Irish Energy Centre as multifaceted:

— to educate and encourage a more enlightened attitude towards energy efficiency;
— to promote energy-efficient technology;
— to show consumers how money can be saved by using energy prudently;
— to help protect our environment.

My own personal and political commitment to energy efficiency, and the protection of our environment, is well documented. My motto is a simple one: **save energy, save money, save our environment.**

Exhibitions such as the Energy Show '98 provide excellent venues to demonstrate and portray the work of the Irish Energy Centre.

I am confident it will be a great success and I pay tribute to all those involved in organising it.

Joe Jacob, TD
Minister of State at the Department of Public Enterprise
CONTROLS
YOUR ENERGY

Danfoss Adap-Kool® Refrigeration Control and Monitoring System
- Adaptive control optimises plant capacity.
- Reduced running costs and short payback time.
- Energy savings through lower condensing temperatures.
- Easy to retrofit on existing systems (eg water chillers, process plant, cold stores etc).

Danfoss-Randall Heating Controls
- Thermiser® Total Controls Pac.
- Thermostatic Radiator Valves for individual room temperature control.
- Motorised Valves 2-port & 3-port (sizes from $\frac{1}{2}"$ to 6$"$).
- Time Clocks & Programmeable Thermostats.
- Automatic By-pass and Flow Control Valves for system balance and pump protection.

Danfoss HVAC Drives for pump and fan speed control
- VLT® 6000 (HVAC) Speed Drives are dedicated to Heating, Ventilation and Air Conditioning.
- Compact and Reliable Design.
- No Motor Derating necessary.
- Optimised Energy Consumption.

J.J. SAMPSON & SON LTD.
Nangor Road Business Park, Dublin 12.
Tel: 01 - 626 8111
Fax: 01 - 626 9334
e-Mail: sampson@indigo.ie
THE ENERGY SHOW - ALPHABETICAL LISTING OF EXHIBITORS

ABB .......................................... E4/E5
Advanced Energy Solutions ................. A8
Albar Associates ................................. D14
Ashdown Building Management ............. A5
Atlas Copco Ireland ............................. E8
Belimo ........................................... C2/B11
Bestobell ......................................... C7
Bord Gais ........................................... B13
Caradon Trend .................................... E6/F4
Casey Consulting ................................ E1
Clayton Thermal Products ....................... E7a
Clean Duct Services ............................. A10/A11
Cochran Boilers ................................ A2
CODEMA ........................................... E3
CompAir Broomwade Ltd. ....................... G3
Conservation Engineering ....................... B13
Coppercraft ...................................... D1/C12
Cylon Controls .................................. F3
D E Generator Hire ................................. D12
Danfoss ........................................... B2
Delta .................................................. C2/B11
Delta Environmental .............................. C5/B8
DMC .................................................. B9a
Drives & Controls ................................ C11
Dwyer ............................................... C7
E S B ................................................ B3/B4
Edina Power Plant ................................. C13
Edmae Systems ................................... F6
EFT Control Systems .............................. B6
Electric Drives .................................... F7
Energy Agency Arnhem ........................ E3
Environment 2000 ................................ D8
Environmental Efficiency Consultants .... B7
EPH Controls ....................................... G1
Excalibur Controls ................................ A1
Firebird Boilers .................................. A9
Gems ................................................ C7
Gensym ............................................. A8
Gerkros Boilers (Tipperary) ..................... C1
Grant Engineering ................................. B5
Hamworthy Heating ............................. D3/D4
Hanley Air Systems .............................. G3
Harold Engineering ............................... A13
HDS Energy ......................................... C3/C4
Heating Distributors .............................. D10
Hevac ............................................. D3/D4
Honeywell Control Systems ...................... F9
HR Holfred (Engineering) ....................... A2
Hynes Ventilation & Air Conditioning .... A10/A11
Ingersoll-Rand (Air Compressors) .......... A13
Irish Energy Centre .............................. F1/F2
Irish Energy Management ..................... E9
J J Sampson & Son ................................. B2
Jetvent ........................................... D7
Johnson Controls Systems .................... D9
Katana Integrated Systems ................. A10/A11
KB Combustion .................................. B12
Keston Heating Products ...................... C9
Land Infrared ....................................... C7
Landis & Staefa .................................. C10
Lectron Industries ................................ A3
Luxmate ........................................... A6
M T Agencies Ireland ........................... A11/A12
Maester ............................................. C7
Malone Lighting .................................. D2
Manotherm ......................................... C7
March Consulting Group ......................... A8
Maxwell Industrial Instruments .......... D6
McCool Controls & Engineering ........ F8
McKenna Ireland ................................ B10
Mitsubishi Electric ................................ G1
Mizushi ............................................. C2/B11
Nederman (Extraction Systems) .......... A13
Northern Design (Electronics) ........ D6
OHM Group ......................................... D12
OPET ............................................. F1/F2
Platon .............................................. C7
Powerlogi ........................................... D11
PR Electronics ...................................... C7
Prolux .............................................. A7
Quattro Seal ......................................... C6
Raab Karcher Energy Services ........... D5
Rueger ............................................. C7
Safeair Systems .................................. C2/B11
Safeguard Systems ......................... C2/B11
Sauter HVAC Controls ......................... G1
Schneider Electric Ireland .................. D11
Setsquare ........................................... E6
Shischek ............................................. C2/B11
Siemens Drives .................................... C10
Sinergy ............................................. C5/B8
Sirus Engineering Systems .................. C10
Sontay .............................................. C8
Spirax Sarco ......................................... E2
Spirax Sarco ......................................... E2
Standard Control Systems ............... E6/F4
State Water Heaters ....................... D3/D4
Team Software ....................................... A4
Tech Con Sales ....................................... D5
Telemecanique ..................................... D11
The Institute of Energy Belfast .......... G2
Thermal Process ......................... D1/C12
Tridonic .............................................. A6
Wilco Engineering ................................ D3/D4
Woodleigh ........................................... C5/B8
York Controls Group ......................... E7
ABB
Belgard Road, Tallaght, Dublin 24, Ireland.
Tel: 01 - 459 8690 Fax: 01 - 405 7370
Contact: Richard Walsh
Details available on stand

Advanced Energy Solutions
18C Adelphi Quay, Waterford, Ireland
Tel: 051-856 987 / 087 249 3965 Fax: 051-856 987
Contact: Mr Gerard McNulty - Senior Specialist
Advanced Energy Solutions specialise in energy audits of complex processes and systems as found in industrial and commercial environments. They also use the latest techniques such as data mining, artificial intelligence and advanced control to optimise systems and minimise running costs.

Albar Associates
Meridian House, Road One, Winsford Industrial Estate, Cheshire CW10 0RS, England
Tel: 084 1606-861 351 Fax: 084 1606-861 643
Contact: Mr Mike Dorgan - Partner
Albar Associates are the Atlas Range of energy monitoring and load control systems, plus portable energy recorders for purchase or hire. Both DOS and Windows software packages are available to suit your requirements.

Ashdown Building Management
Ashdown House, 7 Tinternmore Road, Drogheda, Co. Louth, Ireland
Tel: 049-648-27-600 Fax: 049-648-27-666
Contact: Mr Seamus McGlade

Ashdown are an Irish company specialising in the manufacture and supply of HVAC Control Panels and BMS Systems. For a decade Ashdown have stood for both quality service through to project completion and unmatched backup service. We have recently qualified for the ISO 9002. Our portfolio includes a number of prestige projects in the Dublin Area.

Atlas Copco Ireland
14 Memore Road, Bluebell, Dublin 12, Ireland
Tel: 01-450 5978 Fax: 01-486 7686
Contact: Mr Joe Newman
Atlas Copco variable Speed Drive Compressors can reduce the cost of compressed air energy by up to 35% automatically. Atlas Copco Compressors meet every independent world-wide and European standard. Service centres at Dublin, Cork, Limerick, Clonmel, Athlone, Belfast and Letterkenny.

Belimo
Unit 34, Southern Cross Business Park, Bray, Co. Wicklow, Ireland
Tel: 01-276 1600 Fax: 01-276 1611
Contact: Mr Shaun McGill - Managing Director
Belimo are leaders in the ductwork cleaning industry, offering a wide range of services in the air hygiene spectrum. These include:- Duct Cleaning & Sanitisation - Pre-handover cleans & kitchen extract cleaning - Risk Assessments - CCTV inspections.

Bestobell
The Control Centre, 4 Walkinstown Road, Dublin 12, Ireland
Tel: 01-452 2355 Fax: 01-451 6919
Contact: Mr Brian Harris - Mr Bob Gilbert

High quality energy saving thermostatic/thermodynamic steam traps.

Bord Gais
D’Olier Street, Dublin 2, Ireland
Tel: 01-602 1142 Fax: 01-602 1110
Contact: Ms Yvonne Carthy
Details available on stand.

Caradon Trend
3 Tatton Court, Kingsland Grange, Woolston - Warrington, Cheshire WA1 4RW, England
Tel: 0044 1925-823 223 Fax: 0044 1925-811 003
Contact: Mr John S. Hoxton - General Manager - Ms Sue Monks - Commercial Administrator
Clayton Industries are a world leader in the design, development and manufacture of industrial Steam Generators and Exhaust Gas Boilers for over 60 years and is a major internationally-recognised and respected boiler manufacturer whose reputation is second to none. Clayton manufacture Steam Generators providing 99.5% dry saturated steam in under 5 mins. with outputs from 160 through to 9399kgs/hr. in a range of 19 sizes, fired on gas and oil up to 7500 secs. designed to meet customer’s specific requirements. Clayton also manufacture skid-mounted units complete with the Steam Generator of your choice, pre-piped, prewired and tested ready for connection to services at site.

Clean Duct Services
Ginger House, Grange Ave, Baldoyle, Dublin 13, Ireland
Tel: 01-832 6671 Fax: 01-832 1637
Contact: Ms Anne Ryan - Marketing Manager
Clean Duct Services are leaders in the ductwork cleaning industry, offering a wide range of services in the air hygiene spectrum. These include:- Duct Cleaning & Sanitisation - Pre-handover cleans & kitchen extract cleaning - Risk Assessments - CCTV inspections.

Cochran Boilers
Newbie Annan, Dumfrieshire, DG12 5QU, Scotland
Tel: 0044 141-643 1905 Fax: 0044 1461-205 511
Contact: Mr Jim Scarborough - Sales Manager - Ireland
Holfeld Engineering are Sole Agents in the Republic of Ireland for Cochran Boilers.
CODEMA, The City of Dublin Energy Management Agency, is a joint initiative of Dublin Corporation and the European Union DG XVII. It has the overall objective of identifying the actual energy usage in Dublin City and to contribute to the sustainable development of the City through the promotion of increased energy efficiency. This will benefit the living environment and improve the quality of life for the people who live and work in the City of Dublin.

**ACTIVITIES**
- Establishing the energy balance of the City;
- Formulating energy plans and strategies for developments in the City;
- Implementing good practice;
- Initial focus on housing.

**KEY FACTORS**
- Autonomy;
- Measurement based;
- Person centred;
- Co-operation;
- Consultation
- Partnerships

Contact: Dr Gerry Wardell, Director
Claire Bourke, Co-Ordinator,
CODEMA, Paradigm House,
Dundrum Office Park, Dublin 14.
Tel: +353 - 1 - 296 4072; Fax: +353 - 1 - 296 2484;
eMail: codema@iol.ie
Drives & Controls  Stand: C11
Unit 54 Broomhill Drive, Tallaght, Dublin 24, Ireland
Tel: 01-451 6574 Fax: 01-452 6176
Contact: Mr Aidan McDonnell - Sales Engineer
Drives and Controls are Mitsubishi Electric’s only DRIVES SYSTEM CENTRE in Ireland and will be displaying and demonstrating the new A500 series Mitsubishi Variable Speed Drive. The A500 range, with 15 models from 1.5kW to 55kW, features sophisticated communications options ranging from RS485 as standard, DeviceNet and Modbus Plus to Profibus DP and Mitsubishi’s new CC-Link protocol. Local control of speed, current etc. can be interface via 0-10V and 4-20mA type analogue signals, or 15 user pre-set speeds can be selected by logic signals. Logic inputs also provide forward and reverse start, acceleration mode selection, current input selection, instantaneous power fail restart selection, emergency stop, jog operation and trip reset. Outputs include a volt free relay contact to signal drive tripped, 4 bit open collector logic outputs signifying alarm cause code and a 0-01V analogue output (also 0-144Hz pulse output) of one of several user selectable parameters such as frequency, motor current, output torque etc.

Dwyer  Stand: C7
The Control Centre, 4 Walkinstown Road, Dublin 12, Ireland
Tel: 01-452 2875 Fax: 01-451 0919
Contact: Mr Brian Harris - Mr Bob Gilbert
Low Pressure Measurement.

E S B  Stand: B3/B4
Clanwilliam House, Clanwilliam Lane, Dublin 2, Ireland
Tel: 01-702 6009 Fax: 01-702 6801
Contact: Mr Dave Reynolds - Energy Services
The average Irish company could reduce its electricity costs by 30% by implementing cost-effective efficiency measures. ESB representatives will be pleased to see you at our stand where we can discuss a wide range of energy efficient technologies, including light fittings and controls-energy efficient motors and variable speed drives-compressed air-air conditioning-refrigeration.

Edina Power Plant  Stand: C13
142a Slaney Close, Dublin Ind Est, Glasnevin, Dublin 11, Ireland
Tel: 01-830 7788 Fax: 01-830 7422
Contact: Mr Gerard Harnett - Project Engineer
Details available on stand.

Edmac Systems  Stand: F6
Buzardstown House, Buzardstown, Mulhuddart, Co. Dublin, Ireland
Tel: 01-820 0309 Fax: 01-820 0310
Contact: Mr Edward McGonagle - Director
Edmac Systems Ltd. are the distributors in Ireland for:- Honeywell Controls - Black Teknigas - Actu Pressure Switches - Veris Power Monitoring Products - Mamac Sensors. We specialise in the design, installation, commissioning & servicing of the complete range of Honeywell HVAC, Burner Control & BMS Products. Edmac personnel can carry out energy monitoring and targeting surveys for any industrial or commercial application and provide detailed reports.
EFT Control Systems

Unit 36 Dargle Road Business Centre, Dargle Road, Bray, Co Wicklow, Ireland
Tel: 01-286 3999 Fax: 01-286 8412
Contact: Mr Dermot Freeman - Director
Developer of Capture, an electrical monitoring and max. demand software for the manufacturing Industry. This system has been completely programmed by EFT and can be customised to each customers needs. EFT custom programme in all areas of PLC's etc. “Your concept is our goal.”

Electric Drives

Newbridge Industrial Estate, Newbridge, Co. Kildare, Ireland
Tel: 045-433 044 Fax: 045-433 622
Contact: Mr Michael Carroll
Electric Drives will have on display their range of energy efficient three phase electric motors, together with variable speed drives and soft starts.

Energy Agency Arnhem

Postbus 9200, 6800 HA, Arnhem, Holland
Tel: 0031 26-377 4359 Fax: 0031 26-377 4223
Contact: Mr Albert Reinders - Energy Consultant
Details available on stand.

Environment 2000

The Courtyard, 38 South Quarter, Carrickfergus, Co Antrim BT38 7DP, Northern Ireland
Tel: 028 01960-366 995 Fax: 028 01960-366 995
Contact: Mr Laurie Prior
Manufactures and installers of Insulator Insulation Panels.
Manufacturers and installers of an FM radio controlled thermostats for boilers, zoning valves and monitoring. Own label urinac controls supplied and fitted.

Environmental Efficiency Consultants

48 Main Street, Bray, Co Wicklow, Ireland
Tel: 01-276 1428 Fax: 01-276 1561
Contact: Mr Bob Sutcliffe - Technical Director
Environmental Efficiency Consultants, now The Environmental Efficiency Centre, specialise in energy and environmental audits across a wide range of industry. These can identify cost savings with short paybacks using best practice techniques. In addition to audits we actively assist clients in implementation, monitoring, feasibility studies, benchmarking and training.

EPH Controls

5 Doughcloyne Court, Doughcloyne Industrial Estate, Wilton, Cork, Ireland
Tel: 021-346 238 Fax: 021-341 271
Contact: Mr Trevor Casey
Sauter, the Swiss based HVAC controls manufacturers, now represented in Ireland by EPH Controls, are exhibiting at the Energy Show for the first time. On display is a comprehensive range of HVAC Controls, including Thermostats, Temperature Sensors, Heating controllers, Valves, Valve Drives and Damper Drives etc.

Excalibur Controls

Executive Office Centre, Bridges Industrial Estate, Naas Road, Dublin 12, Ireland.
Tel: 01 - 459 3481 Fax: 01 - 459 2443
Contact: Mr John Wynne – Sales Director
Excalibur Controls sell a patented range of Intelligent Management Systems specifically designed to improve the operating efficiency of boiler systems, space heaters and air conditioning chillers. The units can generate considerable savings in basic energy consumption, reduce harmful emissions, and improve the environmental impact of heating and chilling, without reducing comfort levels.

Firebird Boilers

Ballymakeera, Co Cork, Ireland
Tel: 026-65 253 Fax: 026-65 309
Contact: Mr Michael O’Flanagan • General Manager
Details available on stand.

Gems

The Control Centre, 4 Walkinstown Road, Dublin 12, Ireland
Tel: 01-452 2355 Fax: 01-451 6919
Contact: Mr Brian Harris - Mr Bob Gilbert
Pressure flow and level instruments.

Gensym

IBC Adelphi Quay, Waterford, Ireland
Tel: 051-856 987 / 051-249 3965 Fax: 051-856 987
Contact: Mr Gerard McNulty - Senior Specialist
Intelligent operations management software.

Gerckros Boilers (Tipperary)

Donskeigh, Tipperary, Ireland
Tel: 062-71 105 Fax: 062-71 364
Contact: Mr William Grosse - Managing Director
Manufacturers of oil fired central heating boilers for domestic use. All boilers for indoor and outdoor use are certified to E.U. Efficiency standard. ISO 9002 approved.

Grant Engineering

Cromle, Brr, Co Offaly, Ireland
Tel: 0509-20 089 Fax: 0509-21 060
Contact: Mr Joe Conroy - Sales / Technical
Domestic Oil-Fired Boilers with outstanding efficiency - Grant Engineering Ltd. has two established oil-fired boiler ranges providing outstanding efficiency, good economy and flexible installation. Grant is the first manufacturer to have its entire range certified under the new OFTEC standard OF A100 (EN 303 Part 4), and to receive EC-type certification under the Boiler (Efficiency) Regulations.

Hamworthy Heating

70-72 Lower Dorset Street, Dublin 1, Ireland
Tel: 01-830 1211 Fax: 01-830 1990
Contact: Mr Steve Hills
Details available on stand.
Hanley Air Systems
Stand: G3
Westpoint Industrial Park, Mulhuddart, Dublin 15, Ireland
Tel: 01-822 4822 Fax: 01-822 4833
Contact: Mr Padraig Troy
Details available on stand.

Harold Engineering
Stand: A13
214 Harold's Cross Road, Dublin 6w, Ireland
Tel: 01-497 1039 Fax: 01-497 8091
Contact: Mr Stephen Whelan - Director
Details available on stand.

HDS Energy
Stand: C3/C4
2 Merville Road, Stillorgan, Co Dublin, Ireland
Tel: 01-288 7361 Fax: 01-283 6293
Contact: Mr John O'Reilly - Sales Manager Industrial Division
Holfeld Engineering are Sole Agents in the Republic of Ireland for Cochran Boilers, of Annan, Scotland. Cochran Boilers are part of the ROLLS ROYCE Industrial Power Group and manufacture a comprehensive range of steam and hot water boilers. Boilers can be supplied for firing on liquid, gaseous and solid fuels for a wide range of working pressures.

Hynes Ventilation & Air Conditioning
Stand: A10/A11
8 Ballycurreen Industrial Estate, Kinsale Road, Cork, Ireland
Tel: 021-320 480 Fax: 021-320 479
Contact: Mr John Maloney - Director
The market leader in serving the energy needs of Irish industry offering energy auditing and consultancy, power quality analysis and project management.
**J J Sampson & Son**

*Stand: B2*

Unit 1A, Nangor Road Business Park, Dublin 12, Ireland

Tel: 01-626 8111 Fax: 01-626 9334

Contact: Ms Betina Frederiksen - Marketing - Mr Brian Maguire

HV-AC Sales Manager

The J.J. Sampson & Son/Danfoss stand will illustrate and show various Danfoss Time and Temperature Programmers, Motorised Valves for heating zone isolation and control, Weather Compensators and accessories, Hot Water Storage Cylinders (immersion controls, Danfoss VLT® HV-AC Variable Speed Drives for pumps and fans on building services, and Danfoss Adap-Kool® Control and Monitoring Systems. These Danfoss dedicated Energy Savers are specially designed for Domestic, Commercial and Industrial Heating applications to ensure you are in total control of your energy use and running costs at all times. Our stand personnel would welcome the opportunity to discuss your Heating Controls requirements and offer you a Danfoss solution.

**Jetvent**

*Stand: D7*

18 Ballybrack Road, Newtownards, Co Down, BT23 8TH, Northern Ireland

Tel: 08 01247-812 350 Fax: 08 01247-812 559

Contact: Mr Trevor Monson - Managing Director

Jetvent will be exhibiting the latest advances in ventilation duct-cleaning technology. Their stand will include a “mock up” ductwork system where visitors can see the unique dislodging qualities of “The Jetvent Experience”

**Johnson Controls Systems**

*Stand: D9*

Johnson Controls House, Randalls Research Park, Randalls Way, Leatherhead, Surrey KT22 7TS, England

Tel: 0044 1372-372 111 Fax: 0044 1372-376 823

Contact: Mr Vladimir Ivic - G.M Performance Contracting

Johnson Controls Ltd. is a £10bn, Fortune 200 company, employing 70,000 people in 70 countries, totally dedicated to providing a healthy, comfortable, secure working environment, delivered in the most economical, energy-efficient manner, referred to as a Quality Building Environment. Our mission is to exceed our customers’ expectations in every instance.

**Katana Integrated Systems**

*Stand: A10/A11*

Ginger House, Grange Avenue, Baldoyle, Dublin 13, Ireland

Tel: 01-832 6671 Fax: 01-832 1637

Contact: Ms Anne Ryan - Marketing Manager

Katana Integrated Systems market and install the Heydal Ventilated Kitchen Ceiling - the “Breathing Ceiling” - designed to replace old, inefficient canopy systems. Heydal is an energy efficient, low maintenance ceiling which allows for complete kitchen layout flexibility resulting in improved working environments.

**KB Combustion**

*Stand: B12*

Unit 5, Longmile Business Park, Longmile Road, Dublin 12, Ireland

Tel: 01-456 4095 Fax: 01-456 4097

Contact: Mr Roy Birney

Details available on stand.

**Keston Heating Products**

*Stand: C9*

Unit B6, Cookstown Business Centre, Cookstown Industrial Estate, Tallaght, Dublin 24, Ireland

Tel: 01-451 7022 Fax: 01-451 7613

Contact: Mr Frank Forde - Managing Director - Ms Angela Forde - Director

With efficiencies up to 99.1% Keston Condensing boilers can save over 30% on fuel bills and burns so cleanly that harmful NOx emissions are only 5ppm. A benefit of the Keston is its versatile flue arrangement allowing up to 15 meters of flue using standard waste pipe 40/50mm depending on model.

**Land Infrared**

*Stand: C7*

The Control Centre, 4 Walkinstown Road, Dublin 12, Ireland

Tel: 01-452 2355 Fax: 01-451 6919

Contact: Mr Brian Yarriss - Mr Bob Gilbert

Non contact temperature measurement.

**Landis & Staeaf**

*Stand: C10*

Hawthorne Road, Staines, Middx TW18 3AY, England

Tel: 0044 1784-461 616 Fax: 0044 1784-466 464

Contact: Mr Terry Walters - Marketing Manager

The Landis & Staefa Division of Siemens Building Technologies is a world leader and is number one in Europe for the supply of controls technology and building management systems in commercial and residential buildings. Our Irish agents Sirius Engineering Systems can supply a range of services from design, implementation, installation and commissioning of complete systems.

**Lectron Industries**

*Stand: A3*

4 Balloo Avenue, Bannor, Co Down BT19 2QT, Northern Ireland

Tel: 08 01247-271 525 Fax: 08 01247-466 474

Contact: Mr Jeremy Eaves - Managing Director

Lamps often burn unnecessarily when rooms are empty or when there is sufficient natural light. SETSQUARE's extensive product range capable of controlling your lights automatically in most situations. A full design and commissioning support service is offered by their distributors in Ireland.

**Luxmate**

*Stand: A6*

Thomas House, Hampshire International Business Park, Crookford Lane - Chandler's Basingstoke RG24 8LB, England

Tel: 0044 1256-707 900 Fax: 0044 1256-374 200

Contact: Mr Stewart Langdown - Product Manager

Details available on stand.

**M T Agencies Ireland**

*Stand: A11/A12*

Fearn House, Unit 4 Jamestown Business Park, Jamestown Road, Finglas, Dublin 11, Ireland

Tel: 01-864 3363 Fax: 01-864 3371

Contact: Mr Frank Loughran - Sales Representative

Exhibiting Siebe Climate range of domestic heating controls, including Programmers, Digistats Room Stats Thermostats, Thermostatic Radiator Valves and Zone Valves, Smith Hi Level Low Level and Kickspace Fan Convector Heaters

**Maester**

*Stand: C7*

The Control Centre, 4 Walkinstown Road, Dublin 12, Ireland

Tel: 01-452 2355 Fax: 01-451 6919

Contact: Mr Brian Harris - Mr Bob Gilbert

Flue Gas Analysers
Honeywell has the future all mapped out

Honeywell leads the world in building control technology, improving the working environment, conserving energy and raising fire safety and security standards.

In fact, Honeywell building controls can match the needs of any building precisely, from individual controls through to a fully integrated management control and protection system.

The market for Honeywell building controls covers every type of location and every kind of customer. And, whatever your requirement, our distributors in Ireland are on hand to provide advice and support. That’s how we build strong working partnerships with all customers.

Honeywell’s reputation for quality and reliability is second to none. And this, coupled with our market leading innovations, ensures that buildings run smoothly and can easily be upgraded or modified with products that will serve you effectively today and well into the next millennium.

Home and Building Control,
Honeywell Control Systems Limited
Honeywell House, Arlington Business Park
Bracknell, Berks RG12 1EB
Telephone: 0044 1344 656000
Fax: 0044 1344 656240
Malone Lighting
Unit 5 Mount Dillion Business Park, Brookville Road, Malahide, Dublin 5, Ireland
Tel: 01-867 2196 Fax: 01-867 2197
Contact: Mr Jim Whelan
Our objective is to offer a tailored Energy Efficient Lighting Design using the ENERGY LINE range of products as turn-key refurbishment or an effective stand on your new build. Aesthetics will not suffer. Lighting levels are made to measure, the only reductions will be to your:- Energy Costs, Maintenance Costs and Lamp Replacement Costs. With effective experience in the Retail, Food, Industrial, Commercial, Leisure & Hotel and Education sectors. We have always worked with the client designing an efficient lighting design which will support the very core of their business. Your route to a better Lighting Installation, Survey/Assessment, consultation/Design, Presentation, Agreement and Implementation.

Manoer
The Control Centre, 4 Walkinstown Road, Dublin 12, Ireland
Tel: 01-452 2355 Fax: 01-451 9946
Contact: Mr Brian Harriss - Mr Bob Gilbert
Manoer are exhibiting a wide range of quality controls and measurement products from companies such as:- Dwyer - Low pressure measurement Maeser - The Gas Analyzers Bestobell - High quality energy saving thermostatic thermodynamic steam traps Rugger - Swiss made thermometers Land Infrared - Non contact temperature measurement Platon - Flowmeters - Introducing the new "KAT" ultrasonic ultrasonic flowmeter for clean liquid Gems - Pressure flow and level instruments PR Electronics - Signal Conditioning

March Consulting Group
Telegraph House, Waterfront Quay, Salford Quays, Manchester M5 2XW, England
Tel: 0044 161-872 3676 Fax: 0044 161-848 0185
Contact: Mr Peter Cohen - Principal Consultant
Details available on stand.

Maxwell Industrial Instruments
13 Richmond Grove, Newtownabbey, Co Antrim BT36 5LH, Northern Ireland
Tel: 08 01232 833 830 Fax: 08 01232 837 714
Contact: Mr Trevor Macwell - Managing Director
Details available on stand.

McCul Controls & Engineering
Unit 20 IDA Centre, East Wall Road, Dublin 3, Ireland
Tel: 01-855 0542 Fax: 01-855 0546
Contact: Mr Finn McCool - Managing Director
McCoul Controls are the leading suppliers of controls and energy management systems, with products such as Cylon BMS systems and Honeywell Controls products, McCoul Controls offer the ultimate solution for today's challenging building services controls systems market. McCoul Controls offer a top quality service, maintenance and parts facility, backed up by a highly trained team of professional engineers, from our offices in Dublin and Cork.

McKenna Ireland
Ardee House, Blanchardstown, Co Dublin, Ireland
Tel: 01-821 3988 Fax: 01-821 2714
Contact: Mr Jimmy Foran - Manager
Details available on stand.

Mitsubishi Electric
Westgate Business Park, Ballymount, Dublin 24, Ireland
Tel: 01-456 4422 Fax: 01-456 4422
Contact: Mr Claran Moody - Sales Manager
Drives and Controls are Mitsubishi Electric's only DRIVES SYSTEM CENTRE in Ireland and will be displaying and demonstrating the new A500 series Mitsubishi Variable Speed Drives.

Mizushi
Unit 34 Southern Cross Business Park, Bray, Co. Wicklow, Ireland
Tel: 01-276 1600 Fax: 01-276 1611
Contact: Mr Shaun McGill - Managing Director
Mobile air conditioning.

Northern Design (Electronics)
228 Bolton Road, Bradford, West Yorkshire BD3 6QW, England
Tel: 0044 1274 724 533 Fax: 0044 1274 721 074
Contact: Mr Kris Jadzicki - Sales Co-ordinator
Northern Design are showing a range of multi-function Electricity Meters for measuring kW, kWh, Rolling & Peak Demand. Models can be panel, wall or DIN rail mounted, Complete Power Monitoring systems also have harmonic & disturbance analysis capabilities. Other products include Transducers, Clamp-On Current probes and Abacus II, a data collection system.

OHM Group
Naas Road, Dublin 12, Ireland
Tel: 01-459 1300 Fax: 01-459 1864
Contact: Mr. Sean Smyth - Hire Manager
Details available on stand.

OPET
Irish Energy Centre, Clarenview, Dublin 9, Ireland
Tel: 01-836 9080 Fax: 01-837 2848
Contact: Ms Rita Ward - OPET Manager
A new network of Organisations for the Promotion of Energy Technology (OPET) was established in November 1996. This network, which builds on the previous OPET Network, is a collaboration between the INOVATION Programme (DG XILL) and the demonstration component of the JOULE- THERMIE Programme (DG XVII). The 41 OPETs are spread across the EU and associated countries such as Norway, Iceland, Liechtenstein and Israel. In January 1998 the Network was augmented by 13 fellow Members (FEMOPETs) to cover the central European area. The central objective of OPET is to work closely with the marketplace to help them to utilise the clean and efficient energy technologies supported by the EC Programmes.
Safegard Systems

Stand: C2/B11

Unit 34 Southern Cross Business Park, Bray, Co. Wicklow, Ireland
Tel: 01-276 1600 Fax: 01-276 1611
Contact: Mr Shaun McGill - Managing Director
Safegard Systems Ltd. have recently expanded and moved to new premises at the Southern Cross Business Park in Bray. Safegard specialise in providing damper and valve controls and solutions. Furthering on a division of Safegard, known as ‘Safeair Systems’ specialise in mobile and fixed air conditioning equipment and custom solutions.

Saueter HVAC Controls

Stand: G1

5 Doucheloyne Court, Doucheloyne Industrial Estate, Wilton, Cork, Ireland
Tel: 021-346 238 Fax: 021-341 271
Contact: Mr Trevor Casey
Saueter, the Swiss based HVAC controls manufacturers, now represented in Ireland by EPH Controls, are exhibiting at the Energy Show for the first time. On display is a comprehensive range of HVAC Controls, including Thermostats, Temperature Sensors, Heating controllers, Valves, Valve Drives and Damper Drives etc.

Shischek

Stand: C2/B11

Unit 34 Southern Cross Business Park, Bray, Co. Wicklow, Ireland
Tel: 01-276 1600 Fax: 01-276 1611
Contact: Mr Shaun McGill - Managing Director
Explosion proof and Industrial actuators/valves

Siemens Drives

Stand: C10

Hawthorne Road, Staines, Middlesex TW18 3AY, England
Tel: 0044 1784-461 616 Fax: 0044 1784-464 646
Contact: Mr Charles Smith - Siemens Drives
Details available on stand.

Shinn Valley

Shinn Valley, Ballakaighen, Peel, Isle of Man IM5 2AH, England
Tel: 0044 1624-844 365 Fax: 0044 1624-844 224
Contact: Mr Mark Huelin - National Sales & Marketing Manager
Quattro Seal is a long established National Draught Proofing company. Energy savings achieved with Quattro Seal for the average building are 27% (Building Research Establishment report available). Quattro Seal is installed to the highest standards ensuring a no-nass, no-fuss installation. Quattro Seal can be applied to any style of window, irrespective of the fabric it is made from. All installations carry a Five Year Guarantee.

Safegard Systems

Stand: C2/B11

Unit 34 Southern Cross Business Park, Bray, Co. Wicklow, Ireland
Tel: 01-276 1600 Fax: 01-276 1611
Contact: Mr Shaun McGill - Managing Director
Specialists in mobile and fixed air conditioning equipment and custom solutions.
Sinergy
Station Road, Strines, Stockport, Cheshire SK12 3AQ, England
Tel: 0044 1663-764 833 Fax: 0044 1663-765 885
Contact: Mr. Brian Jones - Managing Director
Details available on stand.

Sirus Engineering Systems
13 The Westway Centre, Ballymount Avenue, Dublin 12, Ireland
Tel: 01-459 6800 Fax: 01-450 7968
Contact: Mr. James Byrne - Managing Director
Irish agents for the Landis & Staefa Division of Siemens Building Technologies, supplying a range of services from design, implementation, installation and commissioning of complete systems of control technology and building management systems in commercial and residential buildings.

Sontay
Four Elms Road, Edenbridge, Kent TN8 6AB, England
Tel: 0044 1732-865 548 Fax: 0044 1732-867 164
Contact: Mr Steve Parker - Sales Director
Sontay are manufacturers of control peripherals for BEM and HVAC applications. Our forte is our ever-expanding range of products, together with a high quality bespoke manufacturing service for “special projects”. We have customers in over 40 different countries, all supported by our professional technical back-up department.

Spirax Sarco
Station Road, Strines, Stockport, Cheshire SK12 3AQ, England
Tel: 0044 1663-764 833 Fax: 0044 1663-765 885
Contact: Mr. Brian Jones - Managing Director
Details available on stand.

Spirax Sarco
13 The Westway Centre, Ballymount Avenue, Dublin 12, Ireland
Tel: 0044 1242-521 361 Fax: 0044 1242-573 342
Contact: Mr J Crowley - Regional Sales Manager
Spirax Sarco, specialists in pipeline controls and instrumentation, provide knowledge, service and products for the control and efficient use of steam and other industrial fluids. Our product range includes boiler controls and systems, flowmetering instrumentation, control valves and systems, steam traps and condensate recovery systems, pipeline ancillaries, clean steam products and humidification systems. Contact Gerry Crowley, Newtown, Eadestown, Naas, Co Kildare on tel. 045-876 491 mobile 087-2571544.

Spirax Sarco
Newtown, Eadestown, Naas, Co Kildare, Ireland
Tel: 045-876 491 Fax: 045-875291
Contact: Mr J Crowley - Regional Sales Manager
Details available on stand.

Belimo Actuated Complete Ball, Butterfly and Globe Valve Assemblies

Retrofit Solutions for 2/3 way Globe and Butterfly Valves

Weathershield Option - IP65

Safegard Systems
THE DAMPER & VALVE CONTROL COMPANY
Systems House, Unit 34, Southern Cross Business Park, Bray Co. Wicklow, Ireland
Tel: +353 1 2761600, Fax: +353 1 2761611
e-mail: safegard@iol.ie
Who would have thought that the energy that should be the first choice for commerce, could be the first choice for our environment too.

Natural Gas is not just the most cost effective fuel, it's clean, efficient and totally compatible with the more minimal design of today. And, because you never encounter problems of delivery, storage or advance payments, eminently sensible.

As we build for the future, responsible experts in design and construction are specifying Natural Gas.
Standard Control Systems  Stand: E6/F4
Standard House, Main Street, Leixlip, Co Kildare, Ireland
Tel: 01-624 6100 Fax: 01-624 6105
Contact: Mr Sean O’Toole - Development Manager
Standard Control Systems (SCS) are established since 1984 and are at the forefront of this industry. Key products supplied are the Trend Building Management System (BMS); Johnson Controls; AirMonitor airflow measuring equipment; and Dri-Steam Humidifiers. Standard Control Systems manufacture their own motor control centres, which typically contain the integrated BMS controllers. They are the longest-established company in Ireland involved in this area and have a wealth of experience. They have completed a host of projects within the pharmaceutical, electronics, medical, and manufacturing industries.

State Water Heaters  Stand: D3/D4
70-72 Lower Dorset Street, Dublin 1, Ireland
Tel: 01-830 1211 Fax: 01-830 1990
Contact: Mr Paul Richardson
Details available on stand.

Raab Karcher Energy Services  Stand: D5
“Sorrel”, Ballyward Bridge, Manor Kilbride, Blessington, Co Wicklow, Ireland
Tel: 01-458 2449 Fax: 01-458 2770
Contact: Mr Gerry Curran - Director
Details available on stand.

Team Software  Stand: A4
34 The Forum, Rockingham Drive, Linford Wood, Milton Keynes MK14 6LY, England
Tel: 0044 1908-690 018 Fax: 0044 1908-690 019
Contact: Mr Keith Garner - Customer Account Manager
Turn energy data into energy savings. Team Software provides both boxed software and bureau services for energy monitoring, targeting an tariff analysis. Team analyses consumption data from metering systems or utility invoices creating graphs and reports that allow you to identify energy waste, target savings and negotiate the best consumer tariff.

Tech Con Sales  Stand: D5
“Sorrel”, Ballyward Bridge, Manor Kilbride, Blessington, Co Wicklow, Ireland
Tel: 01-458 2449 Fax: 01-458 2770
Contact: Mr Gerry Curran - Director
Details available on stand.

Telemecanique  Stand: D11
Maynooth Road, Celbridge, Co Kildare, Ireland
Tel: 01-627 4030 Fax: 01-627 0859
Contact: Mr Mark Keogh - Marketing Activities Manager
Details available on stand.

York Controls Group  Stand: E7
Unit 1 Red Shute Hill, Hermitage, Newbury, Berkshire RG18 9QL, England
Tel: 0044 1635-202 200 Fax: 0044 1635-202 222
Contact: Mr Ray Pateman - Sales Manager
ISN (Integrated Systems Network) is a completely new intelligent building controls product range, designed and manufactured in the UK to meet all relevant European standards. ISN is supplied through York ACR Ltd. and supported by local distributors. ISN also shares common communications with York’s complete range of chillers.
A complete family of high performance variable speed drives and soft start/soft stops are available from Schneider, together with associated controlgear.

Easy to install, reliable and efficient, these products are CE marked and comply with EU Directives.

The new Altivar 18, 0-15 kW, has built-in RFI filters yet is ideal for cost sensitive applications. The new Altivar 58, 0.37-55 kW also has built-in RFI filters. It can be supplied up to 5.5kW single phase and also in an IP55 enclosure. This 3rd generation of sensorless flux vector control sees improved performance and cost effectiveness. The Altivar 66, 0-250 kW, offers advanced communications capabilities.

The PowerLogic system was developed for industrial, institutional, commercial and utility applications both large and small, to help manage their total electrical system investment: energy costs, the costs of operation and maintenance, the cost of the power equipment itself.

It gives accurate and meaningful information about circuit loading and equipment status. It helps in fully understanding the energy usage patterns, kilowatt demand levels and power factor trends. And provides many of the tools for working with this information.

Local availability, product training and after sales service - Schneider provide full backup and assistance. With extensive international experience, we have the products, the services and the people to make your project a cost-effective reality.

Come and see us at Stand D11 in the Irish Energy Show
Our commitment to total quality is now recognised with certification to ISO 9002 after an intensive evaluation of our quality systems and procedures.

Now it’s official.
Certified to ISO 9002.

High quality products and performance have long been the driving force at Richards Industries Valve Group, manufacturer of Jordan Valve, Hex Valve, Bestobell Steam Traps, and Safety Relief Valves. Whether for regulators, control valves, relief valves, instrument manifolds, or any of our valve and steam-related products, you’re assured of a product that measures up to our strict quality standards as guided by ISO 9000/9002, the international quality standard.

Our commitment to total quality is now recognised with certification to ISO 9002 after an intensive evaluation of our quality systems and procedures.
Danfoss Dedicated Variable Speed Drives

With the new VLT® 6000 series, Danfoss is lifting control and monitoring of HVAC applications to a higher level while, at the same time, offering value for money. The objective of the new VLT6000 HVAC series is to achieve optimum control of heating, ventilation and air conditioning installations while offering maximum comfort in buildings for the people living and working there.

Dedication is a natural part of the VLT 6000 series HVAC drives because most of the features are specifically developed for HVAC applications. Moreover, the drives are supported by the JJ Sampson & Son Ltd team of experts who provide total back-up.

Energy savings are one of the overall reasons for installing VLT drives in HVAC applications, because the drives match the speed of the pump and fan motors to the actual demand. Besides the energy savings, the VLT 6000 HVAC drives reduce wear of belts, bearing and valves, reducing the overall maintenance costs.

The VLT® 6000 HVAC drives also offer a high degree of user friendliness. Initially, they are easy to select, offering one device for each motor size. The VVCPlus principle for torque and speed control of induction motors provides full motor power at rated speed without derating.

The product range includes all power sizes from 1.1 to 250 kW at 380-460V and 1.1 to 45kW at 200-240V. The standard enclosure type is IP20, but the entire product type is also available in IP54. The latter makes it possible to mount the device directly on the wall ... an important capability for HVAC installations. Moreover, the IP54 version is a very price - competitive solution since no additional enclosure is needed.

The physical size of the drives is reduced to a minimum, including bookstyle versions for OEM’s and installers. The compact design offers a high degree of flexibility in HVAC applications, and also space savings.

The VLT® 6000 HVAC drive is a safe drive, with an EMC performance according to EN 55011-1B. The EMC compliance is ensured by a built-in RFI filter. The built-in DC-link filter, which significantly reduces the harmonic distortion created by drives, makes external line reactors superfluous.

The VLT® 6000 HVAC drives are very reliable and protect themselves and their surroundings. Earth and short circuit protection is complete. The drive will not be damaged if a motor failure should occur.

The VLT® 6000 HVAC drive is fully equipped for serial communication, including a standard RS 485 interface with Danfoss’ open protocol. Johnson Controls Metasys N2 and Landis/Staefa’s FLN protocols are also built in, allowing direct communication without any additional hardware or labour required. For High Performance Field Busses, option cards can be installed.

In addition, Danfoss’ Windows-based PC communication software, VLT® Software Dialogue, can programme and commission the new drive series via the RS 485 port. This software greatly facilitates setting up a large number of drives identically, but can also be used for direct control and monitoring of the drives and their process data.

Contact: Brian Maguire, HVAC Projects Sales Division, JJ Sampson & Son Ltd. Tel: 01 - 626 8111.

The new Danfoss VLT® 6000 HVAC series from JJ Sampson & Son Ltd

Published by ARROW@DIT, 1998

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Irish Building Services Buyer Guide


Contact
PRESSLINE LTD
Tel: 01 - 288 5001; EMail: pressl@iol.ie
Presentation to Cork FÁS Trainees

Mr Michael Martin, Minister for Education and Science, recently presented certificates to over 200 FAS trainees at the Cork Training Centre, Rossa Avenue, Bishopstown, Cork. Also in attendance at the event were the Chairman of the Board of FÁS, Patrick Lynch, as well as the range of local employers and guests. This year alone, FÁS in Cork will train over 3,500 trainees and apprentices in a wide variety of skills and occupations. Recent years have seen significantly increased demands for specific skills training for both the manufacturing and service sectors, including continuing demands in the construction and engineering sectors, specifically in the area of apprenticeship training.

£1.4M Brookfield Enterprise Centre Opened

The £1.4 million Brookfield Enterprise Centre, developed to create jobs by providing “enterprise space” and employment training services in Tallaght, was recently opened by Mary Harney, TD, Tanaiste and Minister for Trade, Enterprise and Employment.

Pictured with the Minister are Councillor Charlie O’Connor of Get Tallaght Working (left); unit holders Emmanuel O’Neill and Alf Doogan; and Donal Dempsey, Managing Director, Roadstone, who provided the private funding for the project.

Euro Gas Appointment

Martin Garvey has joined Euro Gas Ltd as a director. Martin is a qualified mechanical engineer with a degree from the University of Limerick. He joins from Hevac Ltd, bringing 14 years experience in the commercial and industrial heating and ventilation markets to the company.
Throughout the world Armstrong Insulation Products are at work in all types of industry and all types of climate. Couple our global network with over forty years of continued research and development and you begin to see why Armstrong have established themselves as market leader.

Our continued research and product improvement programme is evident throughout our whole product range surpassing new and improved building regulations, ensuring optimum energy efficiency and putting safety first, as can be seen by our exceptional fire performance standards.

More than that, our product range has been designed for total performance and flexibility. Easy to install, dust and fibre free, our user-friendly product makes short work of the most complex installation problem.

It doesn’t stop there. At Armstrong we believe in total customer commitment. This is reflected in our free full technical support and advice from initial specification through to installation.

Training is also an important part of the total Armstrong package.

Our programmes are aimed at helping to reduce installation costs and increase both performance and longevity of the product when in use.

In essence, when looking for the optimum in flexibility and performance specify and install Armstrong with confidence.

Armstrong...The Advantage.
Grundfos CR Series
Increased Efficiency

With the extension of the Grundfos CR series, these high-efficiency pumps now cover an exceptionally wide range of performance levels. This makes it even easier to find the optimum CR pump for a specific task.

Thanks to the new design, the CR pumps are even better equipped to meet industry's demands for minimising costs. The unique hydraulics design, combined with shaft bearings in a very sophisticated construction, contribute to improving the efficiency of the CR pumps by approximately 10%, resulting in reduced energy consumption.

Another factor which contributes to minimising the costs of operation is the logical design of the CR pumps, featuring easily-replaceable wearing parts. All service can be carried out without the use of special tools, and in the larger models, the shaft seal may be replaced without disassembling the pump.

The vertical in-line design facilitates installation of the CR pumps, even where space is limited. In addition, the pumps' smooth, vibrationless operation makes it possible to install them practically anywhere, without the need to consider the surrounding environment.

The new CR series is designed to be driven by Grundfos MG motors up to 11kW and higher-effect Siemens motors, but any standard motor may be used. Up to an effect of 7.5kW, CR pumps can be supplied with a Grundfos MGE motor with an integrated frequency converter.

The Grundfor CR pumps can be used as separate units or combined in complete booster systems equipped with Grundfos' sophisticated controls for adjusting and monitoring the pumps. Separate CR pumps may also be equipped with sensors for remote monitoring.

All the pumps in the CR series have been approved for use in drinking water systems, and all materials used ensure that pure water will stay pure.

Contact: Gordon Barry, Grundfos Ireland.
Tel: 01 - 295 4926.
BTR Environmental Opens in Ireland

BTR Environmental Ltd, specialist in filtration and pollution control solutions for industry, has opened a dedicated Irish office in Bray, Co Wicklow. Regional Manager Ivor Rowden and Sales Representative, Niall Horgan will spearhead the operation, bringing customers direct access to equipment from its three market-leading brands - DCE, VOKES and Hoffman.

Through the DCE, VOKES and Hoffman brands, the company provides an extensive range of products for literally thousands of different applications. Apart from product, the new operation offers full design advice, consultation and technical support services.

The full range of DCE dust control equipment, including Sintamatic, Dalamatic, Unicell, Unimaster and DCE centralised vacuum cleaning systems, is available, together with Hoffman centrifugal blowers, exhausters and process filtration systems. VOKES air and liquid filters, including air intake, fuel and lubricating oil, hydraulic and micro filters are also supplied direct from the Irish office.

Contact: Ivor Rowden/Niall Horgan, BTR Environmental. Tel: 01 - 286 8145.

Protex ... Irish-made central heating protection from Excel Industries

Protex ... Irish-Made Central Heating Protection

The Protex range of central heating protectors was conceived, developed - and is now manufactured - by Dublin-based Excel Industries' own, in-house, R&D laboratory.

It is a chemically-formulated product for use in wet central heating systems, all products in the range also being suitable for systems containing aluminium.

There are five different products in the Protex range, including a corrosion inhibitor; a de-scaler; universal cleanser; leak sealant; and anti-freeze.

Extensive field trials were conducted to assess and verify the products capabilities, and all performed exceptionally well.

Additionally, attractive packaging was devised as the products are, in the main, a "shelf" item.

Contact: Gearoid Byrne, Excel Industries. Tel: 01 - 820 7900.
Reach key decision-makers in building services ...

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Call Joe Warren at Tel: 01 - 288 5001 or eMail: pressl@iol.ie
Inside the Bestobell Steam Trap

Manotherm Limited –
The Control Centre,
4 Walkinstown Road, Dublin 12.
Tel: 01 - 452 2355;
Fax: 01 - 451 6919